# POWER DOOR PRODUCTS

**The Preferred Distributor for Gate Operators, Door Operators, Access Control Equipment and Revenue Parking Systems**

# TABLE OF CONTENTS


| | |
|---|---|
| GENERAL INFORMATION | Page 1 |
| UL SAFETY LETTER | Page 2 |
| GATE OPERATORS | Page 3-10 |
| DOOR OPERATORS | Page 11-14 |
| REVENUE PARKING SYSTEM | Page 15-16 |
| ACCESS CONTROL | Page 17-25 |
| ACCESSORIES | Page 26-28 |
| GATE OPERATOR QUESTIONAIRE | Page 29-31 |

## WELCOME

Power Door Products has been supplying door and gate operating equipment for nearly 50 years. Power Door has relied on the expertise of our technical support engineers and sales team to design and troubleshoot all aspects of the products we sell either by phone, email, web support or field consulting. We carry a full line of Access Control Equipment, parts and accessories, that can integrate with any gate system or on its own. We will see your project through, from start to finish. PDP offers many customization possibilities and our experts can create a well thought out and engineered plan for your project.

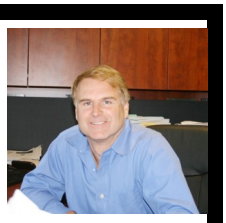
## SERVICES

- We specialize in the design of Gate Operators, Door Operators, Access Control Equipment and Revenue Parking Systems.
- We carry & stock a full line of Operators, Parts & Accessories.
- Power Door Products is an Authorized FAAC Repair Center.
- We stand by the products we represent and provide in-house and field technical support.
- Our courteous staff are here to quickly take your calls and assist you.

## Our Partners

| | | |
|---|---|---|
| ALBANO | EDI | POWER GUARD |
| AMERICAN ACCESS | EMX | POWERMASTER |
| AUTOGATE | ENGINEERED PARKING | R&S CONTROLS |
| AWID | FAAC | RITRON |
| B&B ARMR | GUARDIAN GATE | ROSSLARE |
| BARCODE AUTOMATION | HECTRONIC | RUSCOE |
| BAVAK | HYSECURITY | S.O.S |
| BOON EDAM | KNOX COMPANY | SECURAKEY |
| CCTVSTAR | LINEAR/OSCO | SECURITRON |
| CHAMBERLAIN | MFM | TOMAR |
| CLICK2ENTER | MILLER EDGE | TYMETAL |
| DAC | NATIONAL LOOP | VIKING ACCESS |
| DITECK | PARKING PRODUCTS | 1ST CHOICE RFID |
| DOORKING | | |

# UL 325 Standards and You



**In 1995 Underwriters Laboratories (UL) began to revise the safety standards for gate operators. These standards are concerned primarily with pedestrian safety. In 2000 these standards were concerned primarily with pedestrian safety. In the year 2000 these revised safety guidelines were added to the UL 325 Standard which addresses Door and Gate Operators.**

**UL Standards are voluntary; manufacturers submit their products for testing by UL if they wish to carry the UL label on their products. UL is a widely recognized product testing organization and many manufacturers view the label as a sign of excellence as well as a way of reducing product liability. Other testing organizations such as "ETL" can also test for compliance to the UL standard. Their approval carries the same weight as the UL label. Many manufacturers in our industry have used ETL to test their equipment. All testing organizations must test to the same UL 325 Standard.**

**UL 325 covers not only the operator and its internal safety devices but also prescribes the external safety devices such as photo-eyes and safety edges required to have a UL listed system. UL also establishes guidelines for the gate operators and the general installation of the system. UL established four different classifications range from residential to guarded industrial. Which classification a job falls under determines the amount and type of safety devices required as well as which operators are appropriate. IT IS THE INSTALLING DEALER RESPONSIBILITY TO DETERMINE THE CLASSIFICATION OF THE PROJECT AND THEN INSTALL IT PER THE UL STANDARD. It should also be noted that UL standard is considered a minimum amount of safety protection.**

**In 2006 ASTM F-2200 was published, which is a safety standard for the construction of gates that are to be automated. Like UL, this was a voluntary standard. This standard compatible with the UL Standard but goes beyond it in the guidance for the construction of the gate panel and installation of the gate system. It specifically states what must be done to bring a gate panel into compliance prior to automating the gate.**

**The purpose of these standards is to increase the safety of gate operator systems and thus reduce the number of injuries. Failure to comply with the industry standards will likely increase your liability should an injury occur. On the other hand, your best defense against a law suit is to have a system that is compliant with nationally recognized safety standards.**

**In March of 2009 the UL 325 standard and the ASTM F-2200 standard were written into International Builder's Code (IBC) and the International Fire Code (IFC). While it may be unclear exactly how these codes will be enforced in your area, it is advisable that you research and always comply with these standards.**

**It is always possible that local, state, or federal laws will be passed mandating compliance with these standards. To date, I am only aware of Nevada requiring compliance with UL 325.**

**In an effort to promote the proper installation of gate operator systems, the AFA, DASMA, NOMMA, and IDA, in conjunction with IDEA ( International Door Education Association) have developed a Certified Gate Operator Installer program. Certified Installers have proven themselves to have a high degree of knowledge on gate operator systems, and a valuable asset to their companies.**

**I encourage anyone who is involved with automated gate systems to learn and follow the safety standards and acquire their certification. I am not an agent of UL, ASTM, DASMA, IDEA or any other organization writing or teaching these standards. As a member of our industry I have been following the events surrounding these standards and believe we should all remain informed. This article is in no way intended to be a complete education regarding these standards. It is an encouragement to learn and comply with the UL 325 and ASTM F-2200 standards and promote better operator system installations.**

**You can obtain more information from IDEA, DASMA, the AFA or likely your operator supplier. Power Door Products will also be happy to help you learn more about these standards, will conduct trainings in UL and provide instruction in certification classes.**

**For more information please call us a 914-698-5083.**

**Paul T. Cardillo**
**President**
**Power Door Products**

# GATE OPERATORS

**Power Door Products offers gate operators to handle all your different gates. Operators for slide gates, swing gates, barrier gates, vertical lift gates, vertical pivot gates and bi-fold gates are available to accommodate your specific needs. Each of these offer benefits based on space available, time to open and security level. The following is a sampling of what Power Door has to offer. Our complete line covers from residential to heavy duty industrial with many different features. Please call one of our gate operator specialists to assist you in finding the correct operator for your project.**

SLIDE GATES

## POWERMASTER

### SG SLIDE GATE

**The SG is available with 1/2 - 1 1/2 HP single or three phase motor designed for use on gates with a maximum weight of 1500 pounds and a maximum width of 50 feet. This unit is supplied with an oil bath type gear reducer filled with Mobil 1 gear oil and is rated at 30 cycles per hour. The gate travel is approximately 11" per second. The drive mechanism is easily disconnected for manual operation. This is UL 325 listed for use in Class I through Class IV applications.**

## HYSECURITY

### SLIDE DRIVER

**SlideDriver is the original ultra-reliable and robust hydraulic slide gate operator chosen to secure thousands of sites worldwide. Fully enclosed hydraulic motors which propel a rigid drive rail through two compressed polyurethane wheels. Low maintenance. Few moving parts. Lasts decades. Unlimited duty cycles. Hydraulic, industrial grade components. Smart Touch Controller with diagnostics and integrated security reporting. 1 to 3 ft/s, up to 20,00 0 lb gate. Gate length limited only by weight. All voltages/ phases. Steel cover. Seamless synchronization with all HySecurity operators for master-slave, sally port or other specialized applications.**

## VIKING ACCESS

### H-10 SLIDE GATE

**The H-10 gate operator has the capacity to operate slide gates up to 2000 lbs. and 45 feet in length at 100% duty cycle under extreme conditions. It's efficient mechanism provides a solution for high traffic commercial slide gate applications. The Viking H-10 gate operator offers efficiency and technology combined in a single package. As, DC operator it has built in battery back up.**

# GATE OPERATORS

SLIDE GATES

## B&B ARMR

### LXL Hydraulic Slide Gate Operators

**B&B ARMR's LXL Series Hydraulic Slide Gate Operators are designed for consistent and dependable operation of high cycle applications. Ideally suited for highly sensitive commercial and industrial facilities, these operators are easily adaptable to lower risk establishments such as gated communities, small business, and even private residences.**
*** More secure than chain-drive units, low maintenance, self contained hydraulic system with minimal wear items, UL 325 Compliant Design, Safe 24VAC/24VDC controls standard, Drive rail increases rigidity of gate panel, continuous duty operation, hand release for manual operation.**

## CHAMBERLAIN

### SL 585 INDUSTIAL SLIDE GATE OPERATOR

**The LiftMaster SL585 is durable heavy-duty gear-driven for use on heavy gates and high-cycle applications such as gated communities and industrial locations. The powerful design supports gate lengths up to 70 feet and gate weights up to 1,600 pounds. A strong powder-coated galvanized steel chassis, all-weather gearbox, as well as a weather-resistant, lockable cover ensure years of rugged and reliable performance. This model is ideal for heavy commercial and industrial installations and is UL325-complaiant.**

## FAAC USA

### 844 ER GEARMOTOR

**The FAAC 844 is ideal for commercial and industrial applications. Anti-crushing safety. As the gear motor is non reversing, no electric locks need to be installed. In the event of power failure, the key-operated release device makes it possible to open and close the gate manually. Twin disk clutch in oil-bath. Inductive or magnetic limit switch (according to model).**

## DOORKING

### 9150 COMMERCIAL AND INDUSTRIAL

**Model 9150 operators are designed to operate vehicular slide gates in residential, commercial and industrial applications. These operators are designed so that they can easily be mounted in the front, center or rear of the gate without any costly and time consuming field modifications. In addition, the operators can be pad or post mounted to meet any installation requirements. The 9150 can be equipped with a factory installed DC Convenience Open option which will automatically open the gate in the event of a power outage.**

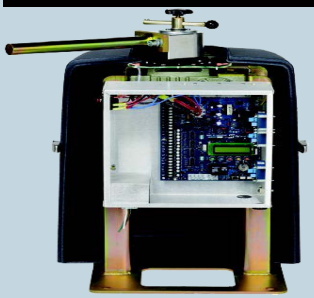
# GATE OPERATORS

## POWERMASTER

### CSWI SWING OPERATOR

The CSWI is designed for use on gates with a maximum weight of 1800 pounds and a maximum width of 30 feet. The gate will travel from open to close in approximately 13 seconds and is rated for a maximum of 45 cycles per hour. The CSWI is available from 1/2—1-1/2 HP in single for three phase. The drive arm is easily disconnected for manual operation in case of power failure. This unit is UL 325 listed for use in Class I through Class IV applications.

## HYSECURITY



### SWINGSMART

Swingsmart delivers that same uncompromising quality to commercial and residential customers, where ease of use, elegant operation, low maintenance and high reliability are expected. Operates after power loss. Uninterruptible battery power provides up to 300 gate cycles after AC loss. SwingSmart can also power your access control and safety devices.

## VIKING ACCESS

### G-5 SWING GATE OPERATOR

With its compact, low profile design and the power to support 700 lbs of weight along with gate lengths of up to 16 feet, the Viking G-5 will revolutionize the idea of gate operation. This operator is manufactured with the highest Quality components and is designed to accent any gate style. The G-5 is capable of continuous cycles operation at 24V DC, converted directly from an AC line. The battery back-up provides up to 400 cycles of operation at 24V DC, converted directly from an AC line.

### ULTRA REVOLUTION GATE OPERATOR

The Revolution automatic gate system runs off of a Rechargeable 12V battery, which is trickle charged via transformer connected to 110 volts or optional 10-watt solar panel. With its solar power capabilities and 12V battery power source, the revolution Gate is environmentally friendly, and can work even in the event of power outage. All The power components an remote sensors are hidden away in a compact, weather-resistant control box. All of the gate opening systems are UL-325 Compliant.

SWING GATES

# GATE OPERATORS

SWING GATES

## FAAC USA

### 750 SWING GATE

The Model 750 hydraulic swing gate operator is designed specifically for underground installation in residential applications. Because of it's power and invisibility, the 750 is ideal for large, ornamental gates.

The 750 hydraulic system can hydraulically lock your gate in the opened and/or closed positions. Your gate system can also be set up to provide special options including "gate-safe" or "gate-secure" configurations:

- Gate-safe: during power outages, a magnetic lock releases a closed gate to permit emergency access.
- Gate-secure: during power outages, an electric lock keeps a closed gate locked.

## HYSECURITY

### HRG SWING RISER GATE

This operator was the first security gate operators to use hydraulic power. Its proven design has been in continuous production and refinement for over twenty years. The HRG 220 series operator is the only truly industrial-grade swing gate operator on the today. This tough operator is ideally suited for dependable operation of massive iron or steel gates. Its 3000-lb capacity provides plenty of power, and the Lift and Swing feature eliminates normal obstacles such as heavy snow fall and inclined or irregular roadways.

## VIKING ACCESS

### X-9 SWING GATE

The standard specifications and features of the X-9 gate operator showcase the commitment made in its concept and design. Whether it's the simple, clean installation, energy efficient operation, or advanced battery backup function, this operator stands alone in its class. Included with the standard package are high quality direct burial cable, the complete control center and the X-9 operator. This operator is UL Listed 18TC UL325 and UL991.

# GATE OPERATORS

## POWERMASTER

### SBG BARRIER GATE

**The SBG is for use with arms up to 16' and a maximum of 100 cycles/hour. The unit is available as 1/2 HP 115 VAC.**

- **Open/Close Switch on Control Panel. Pre-wired to accept Radio Controls, reversing equipment loop detector systems, automatic closing timers, 7 day timers and standard control stations. Maximum length: 16 feet. Maximum cycles per hour: 100 CPH. U/L listed.**

## HYSECURITY

### STRONGARM BARRIER ARM

**HySecurity's StrongArm meets the demanding reliability requirements of corporate, industrial and governmental users and the very long arm needs of specialty applications like airport runways and multiple traffic lanes. Gentle soft-start and soft-stop extend operators life by preventing mechanical wear and tear.**

- **Hydraulic, industrial grade components. Open or close: 2 to 8 seconds. Up to 36 ft arms. Aluminum, fiberglass, wood arms. Side or yoke mount. T-Lock. All voltages/phases. 2,000 cycles per day. Smart Touch Controller with diagnostics and integrated security reporting. Seamless synchronization with all HySecurity operators for master-slave, sally port or other specialized applications.**

## VIKING ACCESS

### B12 BARRIER

**The Viking B-12 barrier gate operator is ideal for solar applications and offers operational features such as; an integrated backup system, DC operation, flexibility of installation, and surge protection. This operator is capable of handling arms up to 16 feet long with speeds from 2 to 3 seconds. The spacious chassis allows easy installation and service access.**

BARRIER GATES

# GATE OPERATORS

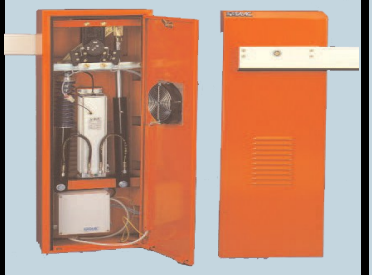
BARRIER GATES

## POWERMASTER

### WBG BARRIER GATE

The WBG is for use with arms up to 24' and a maximum of 25 cycles/hour. The unit is available as 1/2 Horse Power 115 VAC. Opening time: 6-1/2 sec. U/L listed. Class 2 low voltage control circuit.

## FAAC USA



### 640 BARRIER GATE

The Model 640 is the ideal hydraulic barrier for controlling heavy traffic at wide entrances. The 640 operates continuously, raising aluminum beams from 13 to 23 feet long in as little as 4 to 7 seconds. The 640 always stops smoothly and gently, thanks to an adjustable electronic braking system which slows the beam down before the end of its travel when opening and closing. A heat sensor monitors the operator temperature, switching on a cooking fan when required.

## LINEAR/OSCO

### BGU SERIES BARRIER GATE

Model BGU barrier gate can be used for traffic control and parking applications, available in 1/3 and 1/2 horse-power, 115V or 230V supply voltage, various arm lengths. Through switch selections, the gate operator is universal and suitable for all installation and operational functions. Switch selection allows for full flexibility as to how and when the arm comes down in traffic control situations.

# GATE OPERATORS

## AUTOGATE

### VERTICAL PIVOT GATE SYSTEM

**The vertical pivot gate operators require very minimal preventative maintenance to keep them functioning properly. Vertical pivot lifts in all weather conditions including extreme heat and cold as well as snow. They are adaptable to any terrain including mountains, uneven driveways , and drainage swales by fabrication with curb notches, contours, and racking.**

## HYSECURITY

### HVG VERTICAL LIFT GATE

**Hydralift locks fortress tight without additional hardware. Opens huge gate panels in 8 seconds for quick in and out flows. Hydraulics and electronics contained securely in remote control box and inside posts. Well suited for snowy/icy conditions and sites where additional space for swing or slide gates is unavailable.**

- **Unlimited duty cycles. Smart Touch Controller with diagnostics and integrated security reporting. 1 or 2 ft per second. Raises to full 16 ft high opening in as quickly as 8 seconds. Up to 2000 lb, 80 ft wide gate panel. All voltages/phases. Seamless synchronization with all HySecurity operators for master-slave, sally port or other specialized applications.**

## FAAC USA

### BOLLARDS

**The J Series bollard represents a new generation access control solution. Many design innovations make It easy to handle and install but best of all its performance is market leading and lifetime costs exceptionally competitive. Activated by any access control system or signaling device, it is an alternative solution to fixed post and barriers, allowing regulation of traffic into certain zones with high vehicle flow, (e.g. restricted areas, pedestrian areas, parking and industrial sites and many more). Available with a diameter of 11in. (275mm), and a height of 24in. (600mm) or 32in. (800mm).**

# GATE OPERATORS

## Crash Gates

**In today's increasingly dangerous world "crash gates" have become more common. Crash gates come in various models and are designed to different crash ratings. Ratings generally consist of stopping a certain weight vehicle at a certain speed over a certain distance. Some units have been crash tested and certified while others have been engineered to certain ratings while not having a crashed tested certification. For additional information on crash gates and assistance in system design please call Power Door.**

CRASH GATES

### B & B 712, 714

**712, 714, AND CR –25 CABLE REINFORCED CRASH BEAMS**

**B & B ARMR'S Crash Beam Barriers are engineered and designed to protect at-risk access point and prevent forced vehicle entry or exit for facilities requiring medium to high security. These models have a minimum roadway opening of 12 feet (3.7 m) and a maximum up to 25 feet (7.62 m). The units are capable of immobilizing up to 25 feet (7.62 m). The unites are capable of immobilizing a 10,000 lb. 4,535.9 kg) vehicle traveling 18 mph (29.0 km/h), and carry engineered rating of 5,000 lbs (2, 268 kg) at 44 mph (70.8 km/h). Basic components of the crash beam barriers include the standard vertical to horizontal arm with an energy absorption cable assembly, hinge post, receiver/latch post, cable reinforced crash beam and automatic controls.**

### B & B B-30

**B-30 BOLLARD SYSTEM**

**B&B ARMR's Model B-30 Bollard systems are expertly and aesthetically designed to act as vehicular deterrent for perimeter security and traffic control purposes. Engineered for simple installation and fast service, the Model B-30 is constructed of high strength steel cylindrical units guided by an offset flange assembly with precision machined anti-friction surfaces. Custom bollard finishes and decorative sleeve options are available. The B-30 bollard system provides a high level of perimeter security while enhancing the aesthetics of a facility.**

### B & B 850

**850 PORTABLE BARRIER**

**B & B ARMR' Model 850 Portable Barrier is designed to be rapidly deployed in an emergency situation and fully operational within 15 minutes. With a crash rating of K4, the portable barrier presents a formidable deterrent capable of stopping a 15, 000 pound (6803.9 kg) vehicle traveling at 30 mph (48.3 km/h). The barrier may be towed into position using a truck, and once in place, the barrier is lowered into position with built in jacks.**

# DOOR OPERATORS

Power Door has proudly sold the PowerMaster line of commercial and industrial door operators for over 50 years. PowerMaster has a complete line of trolley type and side mount operators to fit your every need. Belt drive and heavy duty gear-head models are available, as well as all the standard NEMA modifications such as waterproof and explosion proof. Operators can be ordered with ½ HP up to 7HP to accommodate just about any size door. Power Door also offers a sliding door operator in both belt and gearhead configurations and in a bi-parting model. Custom modifications are not a problem. Power Door stocks a large selection of operators for immediate delivery. Power Door can equip your operator with a full line or access controls and safety devices to create a complete door operator system. Please call for assistance in pricing or designing your system.

## CGH CENTER MOUNTED GEARHEAD

Model "CGH" operators are designed for use on sectional doors requiring high speed manual operation in case of power failure.

- High starting torque motor w/full overload protections. Solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.

## CH BELT CARWASH HOIST

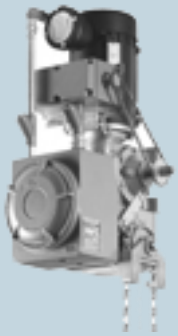
Model "CH" operators are designed for carwash type applications on sectional doors with high lift or vertical lift and rolling service doors and grilles.

- High starting torque TEFC Motor with full overload protection removable without affecting limit switch setting. Solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid stop, delay on reverse, lock bar sensing, maximum run time, etc.

# DOOR OPERATORS

## POWERMASTER





### EMG HAZARDOUS DUTY GEAR REDUCED HOIST

**Model "EMG" operators are designed for use on sectional doors with high lift or vertical lift and rolling service doors and grilles in Nema 7&9 hazardous locations.**

- **High starting torque explosion proof motor with full overload protection. Heavy duty, full voltage reversing contactor. 3 button NEMA 7.9 control station included. 24 VAC control circuit pre-wired for 3 button station, 1 button station, and intrinsically safe automatic reversing equipment, and all types of access control equipment.**

### GJ GEAR REDUCED JACKSHAFT

**Model "GJ" operators are designed for use on rolling service doors, rolling grilles, and counter shutters.**

- **High starting torque motor w/full overload protection and solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-Detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.**

### GSL GEAR REDUCED SLIDE DOOR

**Model "GSL" operators are designed for use on slide doors and refrigerator doors.**

- **High starting torque motor with full overload protection. Solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-Detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.**

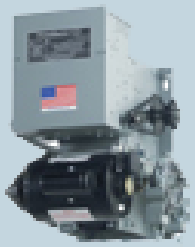
### GT HEAVY DUTY DRAWBAR

**PowerMaster Model "GT" operators are designed for use on Standard Lift Sectional Doors.**

- **High Starting Torque Motor w/full overload protection. Solid State Circuitry with Power and Program Feedback LED's. On Board Open/Close/Stop Buttons for service and adjustments. Terminals labeled and grouped by function. Auto-Detect monitored photo beam for simplified installation. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing , maximum run time, etc.**

# DOOR OPERATORS

## POWERMASTER



### H BELT DRIVE HOIST

PowerMaster Model "H" operators are designed for use on Standard Lift Sectional Doors and Rolling Service Doors and Grilles.

- High starting torque Motor with Full Overload Protection. Solid State Circuitry with Power and Program Feedback LED's. On Board Open/Close/Stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-Detect monitored photo beam for Simplified Installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.

### J BELT DRIVE JACKSHAFT

Model "J" operators are designed for use on standard lift sectional doors and rolling service doors and grilles.

- High starting torque motor with full overload protection. Solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.

### MG GEAR REDUCED HOIST

Model "MG" operators are designed for use on sectional doors with high lift or vertical lift and rolling service doors and grilles.

- High starting torque motor with full overload protection. Solid state circuitry with power and program feedback LED's. On board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-detect monitored photo beam for simplified installation. Selectable built in functions including: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.

### RJ BELT DRIVE JACKSHAFT RELEASE

Model "RJ" operators are designed to allow emergency egress capability and lock bar sensing on rolling service doors and grilles.

- High starting torque motor with full overload protection. Solid state circuitry with power and program feedback LED's. On Board open/close/stop buttons for service and adjustments. Terminals labeled and grouped by function. Auto-detect monitored photo beam for simplified installation. Selectable operating modes B2, C2, D1, E2, T, TS. Field adjustable built in functions: timer to close, mid-stop, delay on reverse, lock bar sensing, maximum run time, etc.

## WIRE GAUGE/MAXIMUM DISTANCE IN FEET

| LINE VOLTAGE | HP | FULL LOAD AMP | 14 AWG | 12 AWG | 10AWG | 8 AWG | 6 AWG |
|---|---|---|---|---|---|---|---|
| 115V 1 PHASE | 1/3 | 7.2 | 100 | 250 | 450 | 600 | 800 |
| | 1/2 | 9.0 | - | 100 | 300 | 500 | 650 |
| | 3/4 | 11.8 | - | 50 | 150 | 350 | 500 |
| | 1 | 13.5 | - | - | 100 | 250 | 350 |
| 208V – 230V 1 PHASE | 1/3 | 3.6 | 250 | 500 | 700 | 1000 | 1500 |
| | 1/2 | 4.5 | 200 | 350 | 500 | 700 | 1000 |
| | 3/4 | 6.0 | 150 | 250 | 400 | 600 | 850 |
| | 1 | 6.8 | 100 | 200 | 300 | 450 | 700 |
| | 1 ½ | 7.5 | - | 100 | 250 | 350 | 500 |
| 208V – 230V 3 PHASE | 1/3 | 1.8 | 600 | 1000 | 1500 | 1800 | 3000 |
| | 1/2 | 2.2 | 450 | 750 | 1200 | 1500 | 2000 |
| | 3/4 | 2.8 | 350 | 600 | 900 | 1100 | 2000 |
| | 1 | 3.6 | 300 | 450 | 750 | 900 | 1500 |
| | 1 1/2 | 4.5 | 200 | 400 | 500 | 750 | 1200 |
| | 2 | 6.4 | 150 | 250 | 400 | 500 | 900 |
| 440V – 480V 3 PHASE | 1/3 | .9 | 2400 | 4000 | 6000 | 7500 | 12000 |
| | 1/2 | 1.1 | 2000 | 3000 | 4800 | 6000 | 11000 |
| | 3/4 | 1.4 | 1500 | 2400 | 3700 | 4500 | 8500 |
| | 1 | 1.8 | 1200 | 1900 | 3000 | 3700 | 6500 |
| | 1 1/2 | 2.3 | 800 | 1500 | 2000 | 3000 | 4800 |
| | 2 | 3.2 | 650 | 1000 | 1500 | 2000 | 3500 |

(1) SINGLE PHASE LISTING IS FOR CAPACITOR START
(2) AVERAGE MOTOR FULL-LOAD AMPS TO RUN STARTING CURRENT IS 3 – 5 TIMES RUNNING CURRENT. WIRE GAUGE LISTED IS CALCULATED TO ALLOW NO MORE THAN 10% VOLTAGE DROP DURING START-UP AND 2% RUNNING AT FULL LOAD.
(3) VOLTAGE DROP CONSTANTS USED WERE FOR 70% POWER FACTOR.

## POWERMASTER OPERATORS

| FULL LOAD AMP RATINGS – SINGLE PHASE MOTORS | | | FULL LOAD AMP RATINGS – THREE PHASE MOTORS | | |
|---|---|---|---|---|---|
| HP | 115V | 230V | HP | 230V | 460V |
| 1/3 | 8 AMP | 5AMP | 1/3 | 1.5 AMP | .8 AMP |
| 1/2 | 10 AMP | 6 AMP | 1/2 | 2.0 AMP | 1.0AMP |
| 3/4 | 12 AMP | 6 AMP | 3/4 | 3.2 AMP | 1.6 AMP |
| 1 | 15 AMP | 8 AMP | 1 | 3.6 AMP | 1.8 AMP |
| 1 1/2 | 20 AMP | 10 AMP | 1 1/2 | 5.0 AMP | 2.5 AMP |
| STARTING AMPS 1.5 – 2.0 TIMES HIGHER | | | 2 | 6.0 AMP | 3.0 AMP |

# REVENUE PARKING

ZEAG

A Member Of The FAAC Group

**Customers who choose Power Door Products for their Revenue Parking Systems Know that they are purchasing reliable service, highest quality equipment and seamless implementation methods. Our services range from traffic flow analysis to design to installation to training and beyond. A variety of equipment functionality allows you to customize all aspects of revenue collection whether attended or unattended. For additional information and site walk, please call Power Door Products.**

PARKING SYSTEMS

## AUTOMATIC PAY STATIONS

- PROFESSIONAL CONTROLLED REVENUE SYSTEMS
- DESIGNED SYSTEMS TO FIT YOUR NEEDS
- IMPROVED ACCOUNTABILITY
- INCREASED REVENUE
- PROVEN RELIABILITY
- INTEGRATED MANAGEMENT SYSTEMS

## ENTRY AND EXIT STATIONS

# PARKING

Hectronic

**Revenue equipment allows you to collect fees for parking. Systems can be operated by a guard or be completely automated. A variety of equipment allows you to accommodate different pay structures for different users. Pay stations can accept a combination of cash, coin and credit card. Vouchers and validation machines provide allowances for special situations, restaurant/shop credits etc. Systems should be planned carefully to keep traffic flowing smoothly. Please call Power Door for assistance.**

**MULTI-SPACE SOLUTIONS**

**PARKING SYSTEMS**

- CUSTOMER FRIENDLY
- INCREASED REVENUE
- INTEGRATED TECHNOLOGIES
- A/C OR SOLAR
- IMPROVED ACCOUNTABILITY
- HIGH AND EFECTIVE RETURN ON INVESTMENT
- USER FRIENDLY
- VERSATILE PAYMENT OPTION AND LANGUAGE SELECTION

# ACCESS CONTROL

## Radio Controls

**Power Door carries a complete line of radio controls from most of the leading manufacturers. From simple dip switch style to programmable to long range applications, Power Door has a wireless solution to meet your needs.**

### LINEAR/OSCO AP-5 RECIEVER

### LINEAR/OSCO GRD RECIEVER

### LINEAR/OSCO XR-4 4 CHANNEL EXTENDED RANGE RECEIVER

### LINEAR/OSCO AM -WOR REMOTE RECIEVER

### LINEAR/OSCO MDKP KEYPAD

# ACCESS CONTROL



## Telephone Entry Systems

**Telephone entry systems allow communication and relay activation through phone lines eliminating the need for separate wiring for intercom systems and push buttons. Most models use a dedicated phone line while others allow you to share a phone line thus eliminating the expense of an extra phone line. Many phone systems can be used as the controller for a more elaborate access control system and have built in keypads and radio receivers. Power Door carries many different telephone entry systems, please call to discuss which unit is right for your application.**

### DOORKING 1812 ACCESS

### DOORKING 1837

### LINEAR/OSCO RE-2N

### LINEAR/OSCO AE-1000

### LINEAR/OSCO AE-100

### AMERICAN ACCESS PHONEAIRE

# ACCESS CONTROL

## ACCESS CONTROL DEVICES

**Access control can be accomplished by using a variety of media. Card readers, keypads, radio controls, long range readers, barcode labels, telephone entry, keys switches, and push buttons. Almost all these devices are available in a simple (common code) model or a unique user code programmable model. They are also available in a stand alone (programming done at the unit) or as networked system programmed by a computer for greater programming capabilities. The following is a sampling of what Power Door can offer you. Power Door is also happy to assist with system set up and programming.**

**AM-3 4 DOOR CONTROLLER**

**ECGO CELL PHONE ENTRY SYSTEM**

ACCESSORIES

**AC-225IP ADVANCED SCALABLE NETWORKED ACCESS CONTROLLER**

**AC-Q42HB ANTI-VANDAL BACKLIT PIN & PROX STANDALONE**

# ACCESS CONTROL

**AWID LR-2000 EXTRA LONG-RANGE READER**

**The LR-2000 is a long range reader that is used in RFID applications such as gate access for pedestrian vehicle and physical access for people. The LR-2000 has up to a 15 feet read range and it uses battery free tags with an unlimited life.**

## CREDENTIALS FOR UHF READERS LR-2000

LONG RANGE READERS

### VT-UHF-0-0 SUNVISOR TAG

- Clip-on tag for sunvisor - reads through windshield
- Quick access - driver lowers sunvisor to read tag
- Hangs from plastic clip - out of sight between reads
- Easily moved from on vehicle to another by user

### HT-UHF-0-0 HANGTAG

- Hook- on tag - hangs on post of inside mirror
- Hands– free vehicle identification
- Visible through windshield for printed identification
- Can be moved to other vehicles or hidden from view

### MT-UHF-0-0 "METAL-MOUNT" TAG

- Variety of uses– inside or outside, fixed or movable
- Attached by self-adhesive, or fasteners, or Velcro
- Best tag for trucks & buses– tag facing side of lane
- Suitable for requirements of diverse applications

# ACCESS CONTROL

## R-2000-W

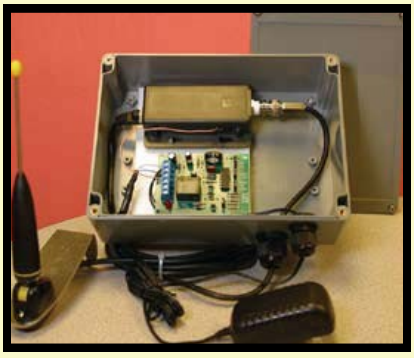
Adjustable read range:
1'-600' with standard Antennas-
Longer range with special Antennas

R-200-W outputs Wiegand 26/32 bit for direct connection to Access Control Systems and serial RS-232/422 for custom software solutions

R--200-W includes Adjustable Wiegand multi-tag buffering for use with Access Control Systems.
The R-2000 Series Ultra Long Range RFID Reader detects and decodes RF transmitted signals from 1st Choice Tags.

* Omni-Directional and Directional Antennas are available.

## SFA-500



Adjustable Tag read range (20'-600') with standard Antenna

The SFA-500 Single Family Reader System includes an adjustable range (20'-500) Vehicle ID Reader, timer relay output kit weatherproof enclosure, power supply and a remote Omni-Directional Antenna.

LONG RANGE READERS

## T-8000 Tags

## Directional Antenna

# ACCESS CONTROL



## Emergency Vehicle Access

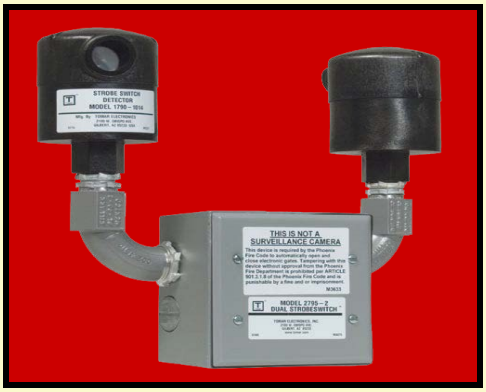
**Emergency vehicle access can be accomplished with several different devices. In some cases they use the same access as any other user but in most cases they require special devices. You should consult your local Fire, Police, and EMS services for what they require or would prefer. In many cases the fire department (or others) require battery backup as well as certain access devices.**

### CLICK2ENTER

### SOS SIREN OPERATED SENSORS

### AMERICAN ACCESS KNOX BOX

### TRAFFIC SYSTEMS 1790-1014



# ACCESS CONTROL

## Safety Equipment & Warning Devices

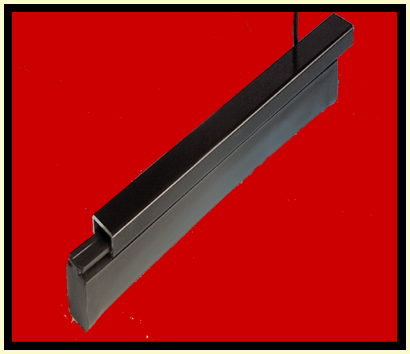
**Pedestrian safety should always be a paramount concern. Safety edges and photo-eyes are the most common types of safety equipment but other devices such as warning buzzers and lights should also be considered. Industry standards such as UL 325 and ASTM F 2200 as well as local and state codes and laws prescribe certain safety devices and others should be used based on job conditions. We strongly recommend learning these standards and following them. Following appropriate safety standards not only reduces the risk of injuries but also helps to limit you and your customers potential liability. Please call Power Door if you need help designing a safe system.**

**EQUIPTEX**
**52 SERIES ROTATING LIGHTS**

**MILLER EDGE PH-T-I**
**INVISI-GUARD**
**PHOTO BEAM**

**EMX IRB-325**
**INFRARED**
**PHOTOCELL**

**MILLER EDGE**
**ME111 S**
**SENSING EDGE**



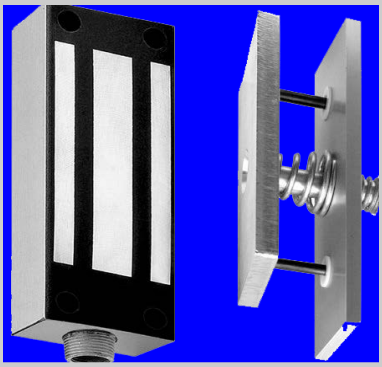
# ACCESS CONTROL

## Pedestrian Access Control

**Pedestrians should never be encouraged to pass through automated vehicle gates or automated vehicle doors. Power door offers a variety of devices to restrict pedestrian traffic, some of which are pictured here. Please call for help in designing your system.**



**SECURITRON M62FG-SASM**

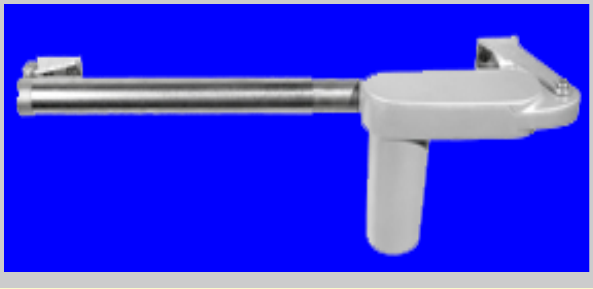


**BOON EDAM THT TURNSTILES**

**LOCINOX LOCKS**

**FAAC 950 SWING DOOR**

**LOCINOX SAMPSON CLOSER**



# ACCESS CONTROL

## Video Surveillance

**Camera systems are more widely used now then ever for both security and safety reasons. It is not safe to operate a gate you can not see. Cameras can be mounted in access control equipment such as telephone entry equipment as well as stand on their own. Power Door offers a wide variety of surveillance to suit your needs.**

### TRUE H-SSA-0412

**4 Channel Real-Time. 120FPS/120FPS @ CIF. Record & Replay True H.264. Real-time Viewing. Mac Client. Web Client, 64Ch CMS, Wap (Smart Phones), iPhone & Android Application. Auto DDNS Registration/ Auto uPnP.**

### SVD-620S-2812- OUTDOOR SMOKE DOME CAMERA

**1/3 SONY SUPER HAD CCD II, 2.8 12 mm Lens. Tru-620 TV Lines (Color 2nd Video Out. 3-AXIS Base for 3D (Pan/Tilt/Roll) rotation. EDN 0.01 Lux Enhanced Day & Night, DWDR, BLC/HLC Day & Night Lens. Motion Detection, Built-in OSD, Privacy Masking. Mirroring, SDNR, Patter Generator, Polarity Protection. 12V DC, IP 67.**

### SB-620SI-D40– OUTDOOR BULLET CAMERA

**1/3" SONY SUPER HAD CCD II, 2.8 12mm Lens. Tru-620 TV Lines (Color) 2nd Vide Out. 3-AXIS Bracket for 3D (Pan/Tilt/Roll) rotation. EDN 0.01 Lux Enhanced Day & Night, DWDR, BLC /HLC. Day & Night Lens, 40 LED(130ft). Motion Detection, Built-in OSD, Privacy Masking. Mirroring, SDNR, Pattern Generator, Polarity Protection. Dual Voltage, IP66.**

### OUTDOOR IR PTZ 12X16D– SIP-V207

1/3" SONY SUPER HAD CCD II, 12X Optical, 16 x Digital Zoom. Tru-560 TV Lines (Color). TDN 0.0001 Sense Up, Lux True Day & Night, LED (100ft), DWDR, BLC, AWB, AG C, FLK, 3 DNR, Flip, Pattern. 129 Preset, 360 Endless Pan, 5 185 tilt, Auto Flip, Heat & Blower, 4 in/2 out, masking Privacy, 205 sec, Auto Scan, Scheduled Pattern/Scan/Tour. Auto Flip. IP 54, Dual Voltage.

VIDEO EQUIPMENT

# ACCESSORIES

## LOOP DETECTORS

Most automated gates use a loop detector system to detect vehicle and have the gate react in a desired way. Loop detectors can also be used as a switch in any application such as turning on a light or activating a warning alarm. Loop detector systems consist of a loop detector and an in ground loop. Power Door has a variety of loop detectors as well as loop material and preformed loops that can be installed in gravel/dirt driveways or under new pavement or other surfaces. Loop detector systems need to be designed correctly for proper functioning, please call us for assistance if you are not familiar with loop designs.

**LMA 1250**
**Loop Detector**

**LMA-1800**
**PLUG-IN**
**VEHICLE DETECTOR**

**EN-L PREFORMED**
**VEHICLE DETECTION LOOP**

**LOOP SEALANT**

ACCESSORIES

# ACCESSORIES

## GATE HARDWARE

**With the built in safety devices on today's operators it is more important than ever to have good working hardware on your gates. Power Door has quality hardware for both sliding and swing gates.**

### ROLLERS

### SPEED PANEL

### HINGES

### TRACK SYSTEMS

# ACCESSORIES



## UV-10 BATTERY BACKUP

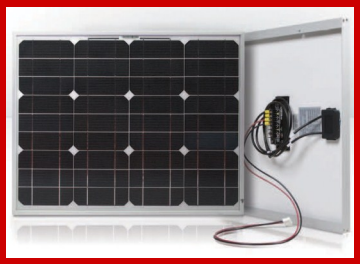
## SURGE SUPRESSORS

## 10PBS PUSH PLATE

## 1KXS PUSH BUTTON

## 3BX PUSH BUTTON

## SOLAR PANELS



# Questionnaire for Gate Operators:

- **Layout drawing:** Please provide drawing of gate site with surrounding items, fence, walls, trees, building, etc.

- **Type of Gate:**
  - Slide
  - Swing
  - Lift & Swing
  - Vertical lift
  - Vertical pivot
  - Barrier gate
  - Bi-fold
  - Turnstile
  - Traffic controller
    - What do they have room for?

- **Construction of gate:**
  - Material
  - Size of material
  - Dimensions
  - Hardware style
    - Type of hinges
    - Type of rollers

    (Get a drawing of the gate, solid leaf?)
    (If gate is existing does it work well?)
  - Size & weight of gate

- **Classification of gate**
  - UL 325 class 1-4?

- **Cycles per hour/day**
  (Peek times?)

- **Who uses the gate:**
  - Owners
  - Employees
  - Guests
  - Contractors
  - Visitors
  - Friends
  - Deliveries
  - Cars/trucks/big trucks/bikes/motorcycles
  - Number of users

- **Reason for automating the gate:**
  - Security- level of security (crash)
  - Convenience
  - Animals- Dogs in/ Deer out

- Privacy

**How do people get in:**

- Radio control
- Card reader
- EZ pass
- Keypad
- Loop
- Probe
- Telephone entry
- Intercom
- Timer
- Key switch
- Push button

  - Will the system be stand alone or network? PC programmable? Audit trail? Single code or multiple? Holiday or time restrictions?

**How do emergency vehicles get in:**

- Fire, police, EMS
- SOS
- Click2Enter
- Strobe switch
- Lock box
- Access controls as others do

**How do people get out:**

- Same option as in

**How does gate close:**

- Timer
- Loop
- Access device (same as how people get in)

**What vehicle safety devices:**

- Loop
- Photo-eye
- Edge
- Sensor

**What pedestrian safety devices (UL 325)**

- Edge
- Photo-eye
- Constant pressure
- Audible
- Clutch
- Pressure valve

**What warning devices will be used:**

- Audible
- Light

- Delay on start

- **Will you need battery back up**
  - Convenience open
  - PS-5000
  - UV-10
  - FAAC
  - Powermaster
  - One shot open or continuous use?

- **Do they need surveillance:**
  - Cameras
  - Etc.
  - Internal or web access

- **Do they need reporting:**

- **Surge suppressors:**
  - High voltage
  - Low voltage
  - Accessories

- **Verbal description of how gate will be used**
  - Odd scenarios may come up

- **What is the power input**
  - 115V 1PH
  - 230V 1PH
  - 208V 1PH
  - 230V 3PH
  - 460V 3PH
  - 208V 3PH
  - Solar
  - Low voltage

- **Special Considerations**
  - High wind
  - Solid Panel

# Notes:

Notes:

**Power Door Products**
**2031 Route 22**
**Brewster, NY 10509**
**Telephone: 914-698-5083**
**Fax: 914-698-6866**
**Website: www.powerdoorproducts.com**
**Email: sales@powerdoorproducts.com**